

Amendments to the Claims:

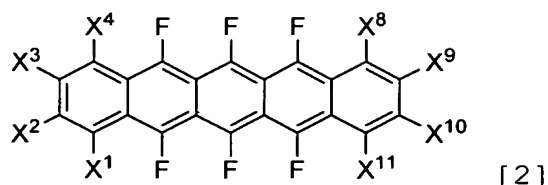
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Cancelled).

2. (Currently Amended) A compound represented by formula [2]

~~{Formula 2}~~

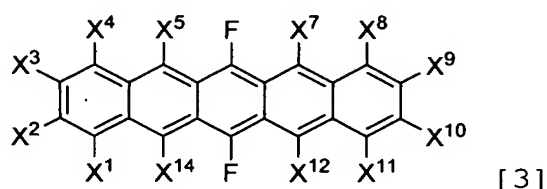


(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, and X<sup>11</sup> represent fluorine, hydrogen, a substituted or unsubstituted C<sub>1-8</sub> alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or X<sup>2</sup> is bonded to X<sup>3</sup> to form a monocyclic or condensed polycyclic hydrocarbon group and/or X<sup>9</sup>

is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group).

3. (Currently Amended) A compound represented by  
Formula [3]

~~{Formula 3}~~

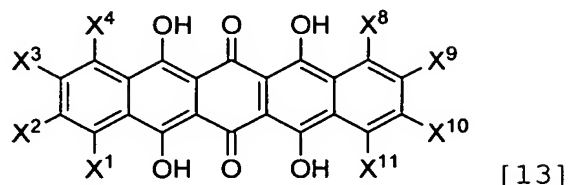


(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^5$ ,  $X^7$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ ,  $X^{12}$ , and  $X^{14}$  represent fluorine, ~~hydrogen~~, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group).

Claim 4 (Cancelled).

5. (Currently Amended) A method of producing a compound represented by formula [13]

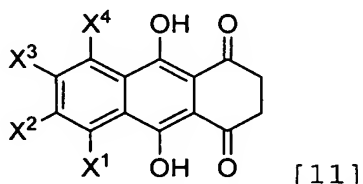
~~{Formula 7}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, ~~hydrogen~~, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group), comprising the step of

producing a compound represented by formula [13] by reacting a compound represented by formula [11]

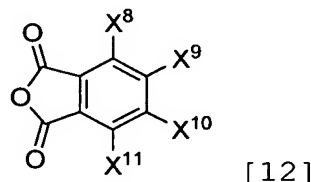
~~{Formula 5}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ , and  $X^4$  represent fluorine, ~~hydrogen~~, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or

unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a compound represented by formula [12]

{Formula 6}

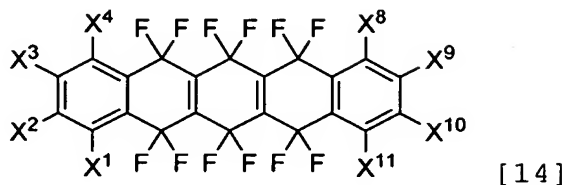


(wherein  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, ~~hydrogen~~, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) in the presence of a Lewis acid.

6. (Original) The production method according to claim 5, wherein the Lewis acid comprises aluminum chloride.

7. (Currently Amended) A method of producing a compound represented by formula [14]

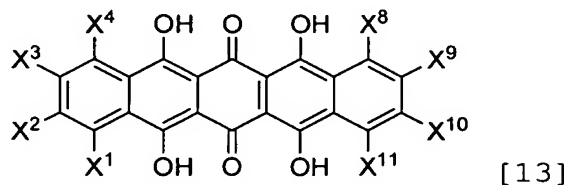
~~{Formula 9}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  are defined as for formula [13]), comprising the step of

producing a compound represented by formula [14] by reacting a compound represented by formula [13]

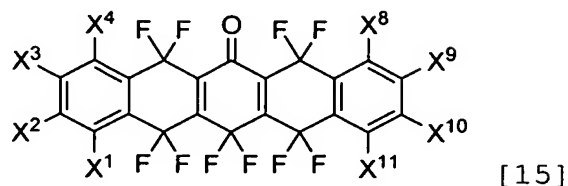
~~{Formula 8}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

8. (Currently Amended) A method of producing a compound represented by formula [15]

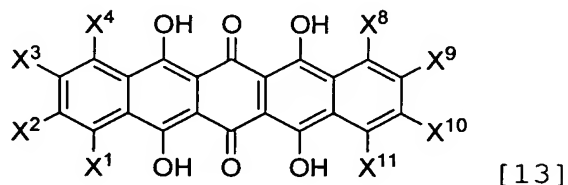
~~{Formula 11}~~



(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, and X<sup>11</sup> are defined as for formula [13]), comprising the step of

producing a compound represented by formula [15] by reacting a compound represented by formula [13]

~~{Formula 8}~~

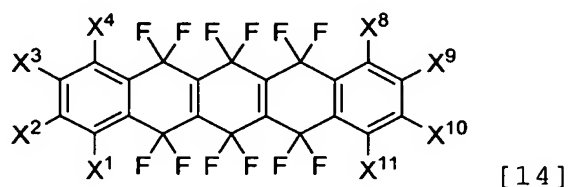


(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, and X<sup>11</sup> represent fluorine, hydrogen, a substituted or unsubstituted C<sub>1-8</sub> alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or X<sup>2</sup> is bonded to X<sup>3</sup> to form a monocyclic or condensed polycyclic hydrocarbon group and/or X<sup>9</sup>

is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

9. (Currently Amended) A method of producing a compound represented by formula [14]

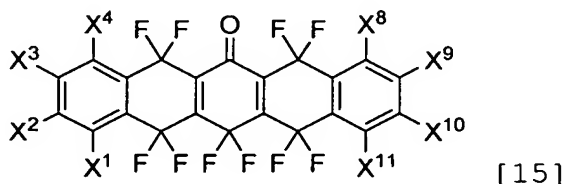
~~{Formula 13}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  are defined as for formula [15]), comprising the step of

producing a compound represented by formula [14] by reacting a compound represented by formula [15]

~~{Formula 12}~~

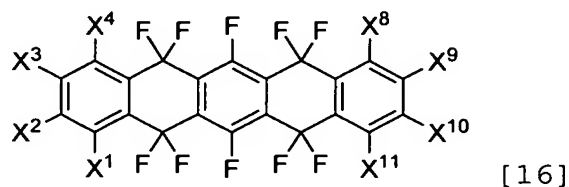


(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a

monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

10. (Currently Amended) A method of producing a compound represented by formula [16]

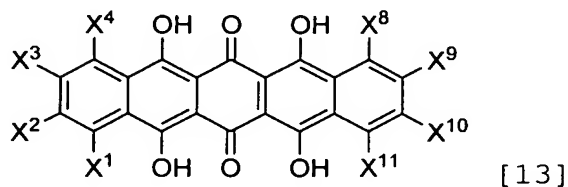
~~{Formula 15}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  are defined as for formula [13]), comprising the step of

producing a compound represented by formula [16] by reacting a compound represented by formula [13]

~~{Formula 14}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and

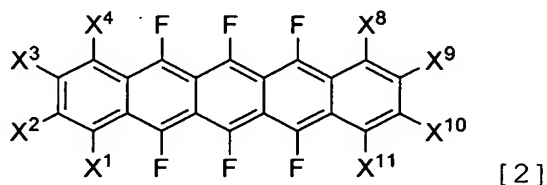


may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

11. (Original) The production method according to any of claims 7 to 10, wherein the fluorinating agent comprises sulfur tetrafluoride.

12. (Currently Amended) A method of producing a compound represented by formula [2]

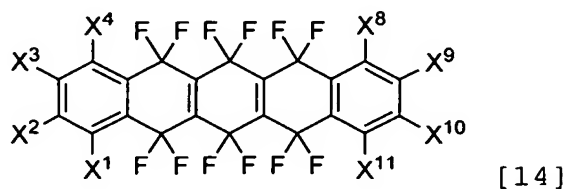
~~{Formula 17}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  are defined as for formula [14]), comprising the step of

producing a compound represented by formula [2] by reacting a compound represented by formula [14]

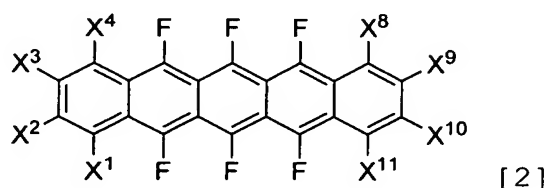
~~{Formula 16}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a reducing agent.

13. (Currently Amended) A method of producing a compound represented by formula [2]

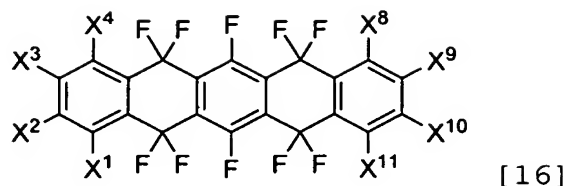
~~{Formula 19}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  are defined as for formula [16]), comprising the step of

producing a compound represented by formula [2] by reacting a compound represented by formula [16]

~~{Formula 18}~~

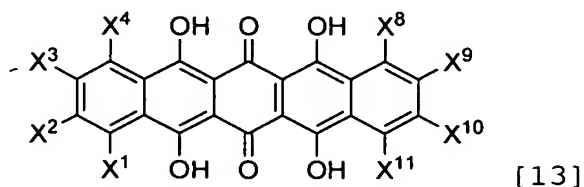


(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a reducing agent.

14. (Original) The production method according to claim 12 or 13, wherein the reducing agent comprises zinc, iron, copper, nickel, palladium, or a combination thereof.

15. (Currently Amended) A compound represented by formula [13]

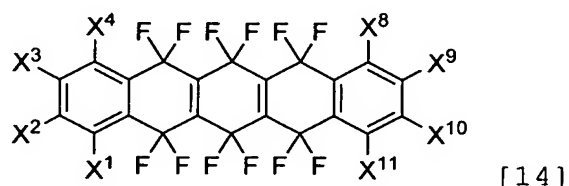
~~{Formula 20}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, ~~hydrogen,~~ a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group).

16. (Currently Amended) A compound represented by formula [14]

~~{Formula 21}~~

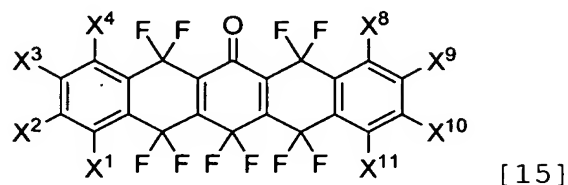


(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, ~~hydrogen,~~ a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a

monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group).

17. (Currently Amended) A compound represented by formula [15]

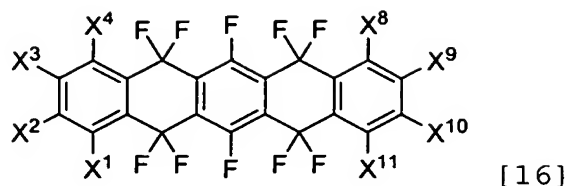
~~{Formula 22}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ , and  $X^{11}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group).

18. (Currently Amended) A compound represented by formula [16]

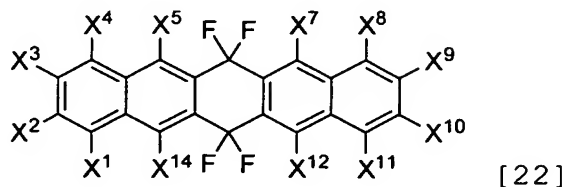
~~{Formula 23}~~



(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, and X<sup>11</sup> represent fluorine, hydrogen, a substituted or unsubstituted C<sub>1-8</sub> alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or X<sup>2</sup> is bonded to X<sup>3</sup> to form a monocyclic or condensed polycyclic hydrocarbon group and/or X<sup>9</sup> is bonded to X<sup>10</sup> to form a monocyclic or condensed polycyclic hydrocarbon group).

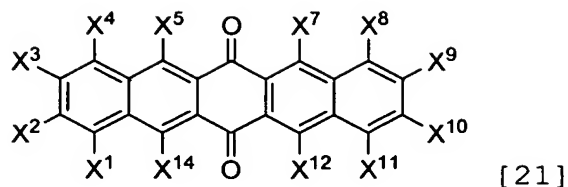
19. (Currently Amended) A method of producing a compound represented by formula [22]

~~[Formula 25]~~



(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>5</sup>, X<sup>7</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, X<sup>11</sup>, X<sup>12</sup>, and X<sup>14</sup> are defined as for formula [21]), comprising the step of  
producing a compound represented by formula [22] by  
reacting a compound represented by formula [21]

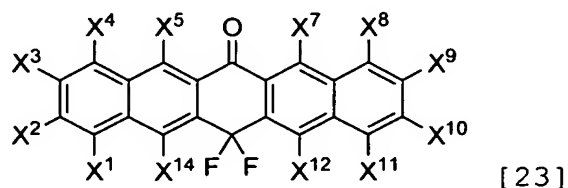
~~{Formula 24}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^5$ ,  $X^7$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ ,  $X^{12}$ , and  $X^{14}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

20. (Currently Amended) A method of producing a compound represented by formula [23]

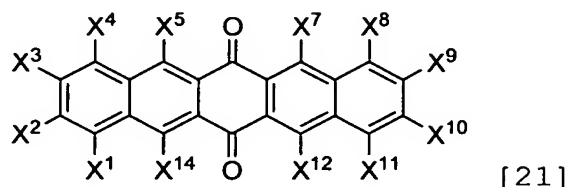
~~{Formula 27}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^5$ ,  $X^7$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ ,  $X^{12}$ , and  $X^{14}$  are defined as for formula [21]), comprising the step of

producing a compound represented by formula [23] by  
reacting a compound represented by formula [21]

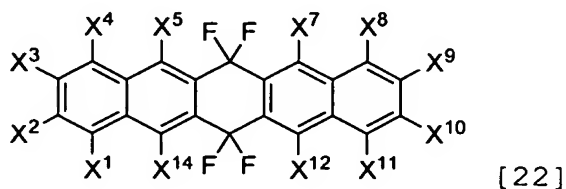
~~{Formula 26}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^5$ ,  $X^7$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ ,  $X^{12}$ , and  $X^{14}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

21. (Currently Amended) A method of producing a  
compound represented by formula [22]

~~{Formula 29}~~

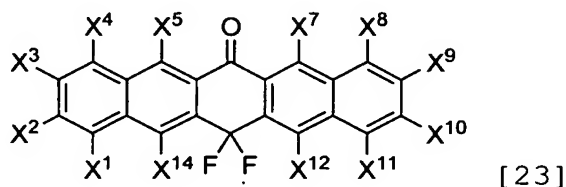




(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^5$ ,  $X^7$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ ,  $X^{12}$ , and  $X^{14}$  are defined as for formula [23]), comprising the step of

producing a compound represented by formula [22] by reacting a compound represented by formula [23]

~~[Formula 28]~~

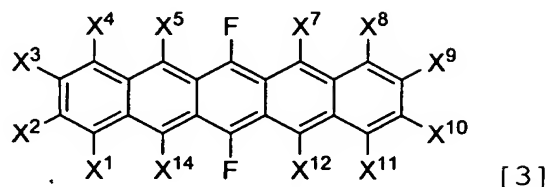


(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^5$ ,  $X^7$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ ,  $X^{12}$ , and  $X^{14}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

22. (Original) The production method according to any of claims 19 to 21, wherein the fluorinating agent comprises sulfur tetrafluoride.

23. (Currently Amended) A method of producing a compound represented by formula [3]

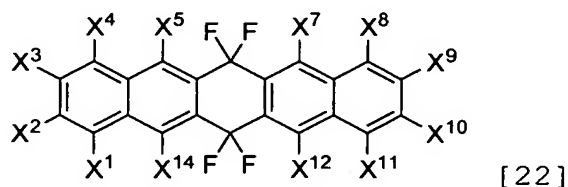
~~{Formula 31}~~



(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>5</sup>, X<sup>7</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, X<sup>11</sup>, X<sup>12</sup>, and X<sup>14</sup> are defined as for formula [22]), comprising the step of

producing a compound represented by formula [3] by reacting a compound represented by formula [22]

~~{Formula 30}~~



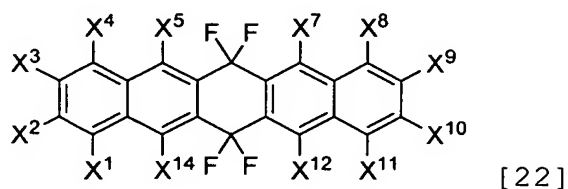
(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>5</sup>, X<sup>7</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, X<sup>11</sup>, X<sup>12</sup>, and X<sup>14</sup> represent fluorine, hydrogen, a substituted or unsubstituted C<sub>1-8</sub> alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or X<sup>2</sup> is bonded to X<sup>3</sup> to form a monocyclic or condensed polycyclic hydrocarbon group and/or X<sup>9</sup> is bonded to

X<sup>10</sup> to form a monocyclic or condensed polycyclic hydrocarbon group) with a reducing agent.

24. (Original) The production method according to claim 23, wherein the reducing agent comprises zinc, iron, copper, nickel, palladium, or a combination thereof.

25. (Currently Amended) A compound represented by formula [22]

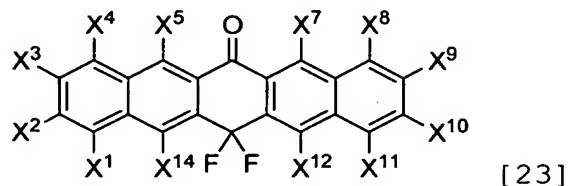
~~{Formula 32}~~



(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>5</sup>, X<sup>7</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, X<sup>11</sup>, X<sup>12</sup>, and X<sup>14</sup> represent fluorine, hydrogen, a substituted or unsubstituted C<sub>1-8</sub> alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or X<sup>2</sup> is bonded to X<sup>3</sup> to form a monocyclic or condensed polycyclic hydrocarbon group and/or X<sup>9</sup> is bonded to X<sup>10</sup> to form a monocyclic or condensed polycyclic hydrocarbon group).

26. (Currently Amended) A compound represented by formula [23]

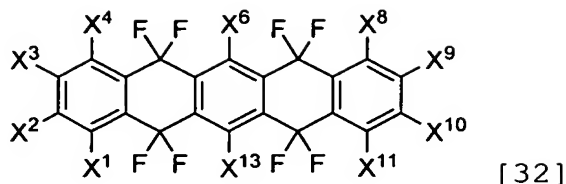
~~{Formula 33}~~



(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>5</sup>, X<sup>7</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, X<sup>11</sup>, X<sup>12</sup>, and X<sup>14</sup> represent fluorine, hydrogen, a substituted or unsubstituted C<sub>1-8</sub> alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or X<sup>2</sup> is bonded to X<sup>3</sup> to form a monocyclic or condensed polycyclic hydrocarbon group and/or X<sup>9</sup> is bonded to X<sup>10</sup> to form a monocyclic or condensed polycyclic hydrocarbon group).

27. (Currently Amended) A method of producing a compound represented by formula [32]

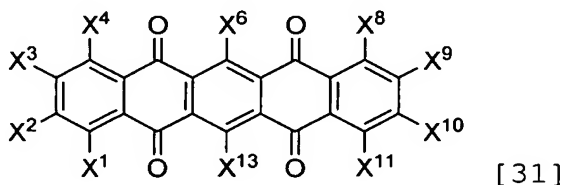
~~{Formula 35}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^6$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ , and  $X^{13}$  are defined as for formula [31]), comprising the step method of

producing a compound represented by formula [32] by reacting a compound represented by formula [31]

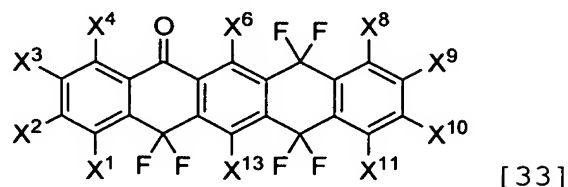
~~[Formula 34]~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^6$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ , and  $X^{13}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

28. (Currently Amended) A method of producing a compound represented by formula [33]

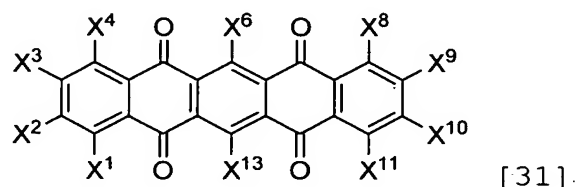
~~{Formula 37}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^6$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ , and  $X^{13}$  are defined as for formula [31]), comprising the step~~method~~ of

producing a compound represented by formula [33] by reacting a compound represented by formula [31]

~~{Formula 36}~~

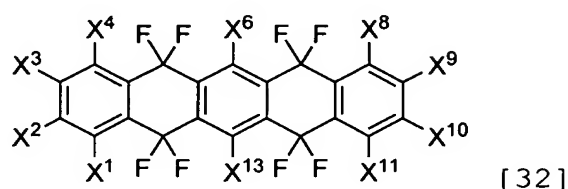


(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^6$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ , and  $X^{13}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to

X<sup>10</sup> to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

29. (Currently Amended) A method of producing a compound represented by formula [32]

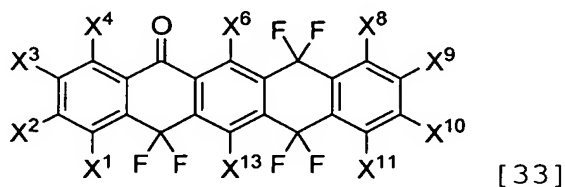
~~{Formula 39}~~



(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>6</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, X<sup>11</sup>, and X<sup>13</sup> are defined as for formula [33]), comprising the step~~method~~ of

producing a compound represented by formula [32] by reacting a compound represented by formula [33]

~~{Formula 38}~~



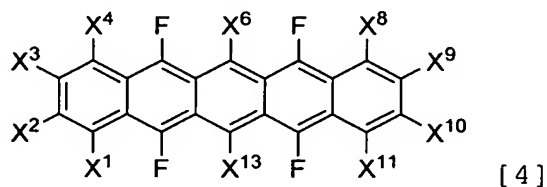
(wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>6</sup>, X<sup>8</sup>, X<sup>9</sup>, X<sup>10</sup>, X<sup>11</sup>, and X<sup>13</sup> represent fluorine, hydrogen, a substituted or unsubstituted C<sub>1-8</sub> alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or

different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a fluorinating agent.

30. (Original) The production method according to any of claims 27 to 29, wherein the fluorinating agent comprises sulfur tetrafluoride.

31. (Currently Amended) A method of producing a compound represented by formula [4]

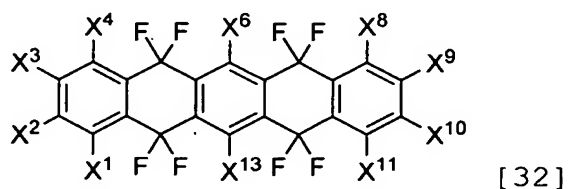
~~{Formula 41}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^6$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ , and  $X^{13}$  are defined as for formula [32]), comprising the step ~~method~~ of

producing a compound represented by formula [4] by reacting a compound represented by formula [32]

~~{Formula 40}~~





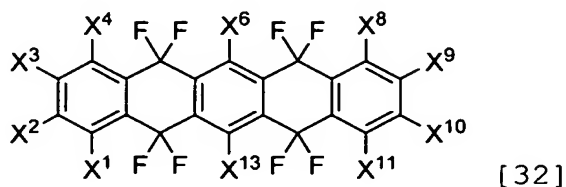
(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^6$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ , and  $X^{13}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group) with a reducing agent.

32. (Original) The production method according to claim 31, wherein the reducing agent comprises zinc, iron, copper, nickel, palladium, or a combination thereof.

Claim 33 (Cancelled).

34. (Currently Amended) A compound represented by formula [32]

~~{Formula 43}~~



(wherein  $X^1$ ,  $X^2$ ,  $X^3$ ,  $X^4$ ,  $X^6$ ,  $X^8$ ,  $X^9$ ,  $X^{10}$ ,  $X^{11}$ , and  $X^{13}$  represent fluorine, hydrogen, a substituted or unsubstituted  $C_{1-8}$  alkyl group, a substituted or unsubstituted phenyl group, a substituted or unsubstituted naphthyl group, a substituted or unsubstituted anthracenyl group, a substituted or unsubstituted naphthacenyl group, or a substituted or unsubstituted pentacenyl group, and may be the same or different; or  $X^2$  is bonded to  $X^3$  to form a monocyclic or condensed polycyclic hydrocarbon group and/or  $X^9$  is bonded to  $X^{10}$  to form a monocyclic or condensed polycyclic hydrocarbon group).